

# AE IV&V Test Case TO8\_8007

## Revision History

Rev. No.	Date	By	Description of Changes
1.0	4/17/08	Jim Williams	Initial test case submission

## 1. TEST CASE IDENTIFIER

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TO8\_8007

## 2. NARRATIVE

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Evaluate performance of the EDEX server-side while ingesting live OAX SBN data in cluster mode running on "baseline" Dell 2950 servers on a dedicated Gig-E network. Determine whether all ingested data is processed and stored in a "timely" fashion. Cluster configuration will be based on Raytheon's own recommendations. We will evaluate cluster performance using different NAS hardware (Netapp, StorageTek, etc). Two- and three-node clusters will be evaluated. The Dell 2950 hardware specifications will match the known hardware specs of Raytheon's proposed PX replacements (i.e., proposed AWIPS II server hardware).

## 3. REFERENCES (Optional)

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Raytheon Omaha test platform for server-side configuration

## 4. FEATURES TO BE TESTED

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Evaluate performance of edex services in a variety of cluster modes (including standalone) while ingesting live SBN data – ingest, decode, and storage of sbn products will be analyzed.

## 5. SETUP INSTRUCTIONS

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Step	Setup Procedure	Result
	Dell 2950 servers configured according to Raytheon's specs for the new PX servers.	

## 6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
	Decode/storage of data by edex services should keep up with the rate of ingest of the SBN data.	

## 7. TESTING PROCEDURE

Step	Procedure	Expected Result	Actual Result
	2-node Dell 2950 cluster with a third Dell 2950 server acting as dedicated NAS device. Postgres will run on the primary cluster node.	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	2-node Dell 2950 cluster with a third Dell 2950 server acting as dedicated NAS device. Postgres will run on a fourth Dell 2950 server (dedicated postgres server).	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	3-node Dell 2950 cluster. Postgres will run on the primary cluster node.	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	3-node Dell 2950 cluster with a fourth Dell 2950 server acting as dedicated NAS device. Postgres will run on the primary cluster node.	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	3-node Dell 2950 cluster with a fourth Dell 2950 server acting as dedicated NAS device. Postgres will run on a fifth Dell 2950 server (dedicated postgres server).	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	Single (standalone) edex server running on a Dell 2950 server.	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	4-node Dell 2950 cluster.	Decode/storage of data by edex services should keep up with ingest of the SBN data.	
	End of test		